This Week in Science ...................................................... 427

LETTERS
Uranium Enrichment: M. Steinberg; Morphological Correlations: C. T. Nuzum; A Glimpse of the Future?: A. S. Bechhoefer 428

EDITORIAL
Addons and Catchons .................................................. 429

ARTICLES
Dispersal Pathways for Particle-Associated Pollutants: R. A. Young, D. J. P. Swift, T. L. Clarke, G. R. Harvey, P. R. Betzer 431
Wallace H. Carothers and Fundamental Research at Du Pont: J. K. Smith and D. A. Hounshell 436
Mainbelt Asteroids: Dual-Polarization Radar Observations: S. J. Ostro, D. B. Campbell, I. I. Shapiro 442

NEWS AND COMMENT
HHS Halts Animal Experiment ........................................... 447
Low-Level Waste Deadline Looms ....................................... 448
Briefing: Wildlife Group Files Suit on Wilderness Access; U.S. Meat Inspection Needs Modernization; OECD Warns of Technological Nationalism; Committee Hits DOE on Project Write-offs 450
Panel Says Warheads Are Too Costly .................................... 452

RESEARCH NEWS
X-ray Drought Ending at Brookhaven’s NSLS 453
Antibodies Made to Order .................................................. 455

BOOK REVIEWS

Engineers and Electrons and The Making of a Profession, reviewed by
D. K. Allison; Science and Scientific Researchers in Modern Society and An
Introduction to Science Studies, P. T. Durbin; Perspectives in Theoretical
Stereochemistry, J. Brocas; Electron-Molecule Collisions, D. W. Norcross;
Reprints of Books Previously Reviewed; Books Received .................. 457

REPORTS

Molecular Resolution Electron Micrographs of Monolamellar Paraffin Crystals:

Aluminum Mobilization in an Acidic Headwater Stream: Temporal Variation and
Mineral Dissolution Disequilibria: R. P. Hooper and C. A. Shoemaker ........ 468

Smoke Production from Multiple Nuclear Explosions in Nonurban Areas:
R. D. Small and B. W. Bush .............................................. 469

Neurovisceral and Skeletal GM1-Gangliosidosis in Dogs with β-Galactosidase
Deficiency: J. Alroy et al. .................................................. 471

Trans-4-Hydroxy-2-Hexenal: A Reactive Metabolite from the Macroyclic
Pyrrolizidine Alkaloid Senecionine: H. J. Segall, D. W. Wilson, J. L. Dallas,
W. F. Haddon ............................................................. 473

Protein-Specific Helper T-Lymphocyte Formation Initiated by Dendritic Cells:
K. Inaba and R. M. Steinman ............................................. 475

Uromodulin: A Unique 85-Kilodalton Immunosuppressive Glycoprotein Isolated
from Urine of Pregnant Women: A. V. Muchmore and J. M. Decker ........... 478

Cis- and Trans-Acting Transcriptional Regulation of Visna Virus: J. L. Hess,
J. E. Clements, O. Narayan .............................................. 480

Technical Comments: Carbyne Forms of Carbon: Evidence for Their Existence:
A. G. Whittaker; P. P. K. Smith and P. R. Buseck; Graft Compatibility and
J. Neigel ................................................................. 485

COVER

Flowering and fruiting stages of Senecio vulgaris L. (common groundsel). It
is a member of the Compositae (Asteraceae), commonly called the sunflower
family, which is now distributed worldwide. These plants contain macrocyclic
pyrrolizidine alkaloids which, when consumed, are known hepatotoxins to
both humans and livestock. Trans-4-hydroxy-2-hexenal, a metabolite recently
isolated from the macrocyclic pyrrolizidine alkaloid senecionine appears
to play an important role in the hepatotoxicity. See page 472. [A. Mar-
isasy, in collaboration with H. J. Segall, Veterinary Pathology and Veteri-
ary Pharmacology and Toxicology, University of California, Davis 95616]